

K. Water Levels



WL-1

SIGN:

Warning Hazardous Area
Water Level May Change
Rapidly Siren Indicates
Increased Spillway Flow

COMMENT:

Identifies danger, source of
danger, and trigger (siren)
for increased awareness of
changing conditions.
Gated ramp also allows
exclusion increasing
overall effectiveness.

RECOMMENDATION:

None.



WL-2

SIGN:

Danger Water Levels
Change Rapidly Stay out
Stay Alive

COMMENT:

Good placement, materials
and readability, color
scheme and use of
symbols.

RECOMMENDATION:

None.



SIGN:

Danger Turbulent
Water Boats Keep Out

COMMENT:

Uses orange symbol
and border of the
USWMS. Identifies
danger to appropriate
audience. Lighting
increases
effectiveness.

RECOMMENDATION:

None.

WL-3



SIGN:

Danger Rapidly Rising
Water Siren Warning
Gates Raise
Immediately Seek High
Ground No Swimming
or Wading

COMMENT:

Sign uses trigger word,
identifies source of
danger and action
required to avoid.

RECOMMENDATION:

Remove empty frame
or replace sign on left
side.

WL-4



WL-5

SIGN:

Restricted Area Warning
Beware of Hazards Such
as Submerged and
Floating Debris
and Stumps and Rocks
which have been Left in
the Lake to Improve Fish
Habitat For Rec. Use
Only Users Proceed at
Own Risk Use Extreme
Caution Activates such
as Jet Skiing Prohibited.

COMMENT:

Uses trigger words to
convey level of danger,
conveys reason and form
danger takes, and gives
specific activities to
avoid.

RECOMMENDATION:

None.



WL-6

SIGN:

Warning Sudden
changes in velocity and
water level

COMMENT:

Good sign to use down
stream of facility.
However, public may
perceive less potential
danger with smaller
signs.

RECOMMENDATION:

Assess level of risk for
this location, and resize
sign if necessary.



WL-7

SIGN:

Danger Do Not Enter This Waterway..., Danger Water May Be Discharged In This Area at Any Instant. It Is Extremely Dangerous Keep Away

COMMENT:

Use of standardized danger trigger and color setup increases effectiveness. Signs identify level of risk, nature of the danger, and advise on how to avoid the danger.

RECOMMENDATION:

None.



WL-8

SIGN:

Warning The River Beyond This Sign is Subject to Rapidly Rising or Turbulent Water Enter at your Own Risk City of ... Falls

COMMENT:

Good placement at parking area within sight of hazard. Identifies specific danger and area of effect. Includes responsible organization.

RECOMMENDATION:

Inclusion of contact information may increase public perception of the level of enforcement/risk.



WL-9

SIGN:

Warning Water Level Increases Rapidly Without Warning and Becomes Very Turbulent and Extremely Dangerous Fishing Swimming Boating Prohibited

COMMENT:

Good placement at access point to reservoir. Good use of color combinations to add to effectiveness.

RECOMMENDATION:

None.



WL-10

SIGN:

Warning Water Level Subject to Rapid Change

COMMENT:

Good use of position, border, and contrasting color. Note second sign closer to tailrace.

RECOMMENDATION:

None.



WL-11

SIGN:

Danger Due To
Sudden Water
Fluctuation Do Not
Enter This Area

COMMENT:

Good use of signage
placement to guide
public behavior at a
recreation site. Keeps
site looking natural.

RECOMMENDATION:

Coloration does not
indicate level of
possible risk, though it
does blend in with sur-
roundings. Assess risk
and need for alternate
color scheme.



WL-12

SIGN:

Warning Hazardous
Area Water Level Flow
May Change Rapidly
Siren Strobe Indicates
Increased River Flow

COMMENT:

Very clear sign.
Reverse font colors in
trigger word, additional
safety measures in
place and placement of
sign increase
effectiveness.

RECOMMENDATION:

None.



WL-13

SIGN:

Beware Water Rises
Without Warning,
Danger Dam Ahead

COMMENT:

Good font size, border
and color combination
for boaters and shore
users.

RECOMMENDATION:

Sign should be
mounted properly.



WL-14

SIGN:

Warning Water Rises
Rapidly When Horn
Sounds and or Light
Flashes

COMMENT:

Contrasting colors,
border and
identification of further
safety measures
increases
effectiveness.

RECOMMENDATION:

None.



SIGN:

Danger Sudden
Release of Water
When Horn Sounds
Leave the Area at
Once

COMMENT:

Use of standard
danger trigger
increases effectiveness
of subtext warning.

RECOMMENDATION:

None.

WL-15



SIGN:

Peligro Cuando Suene La
Alarma Y La Luz Prenda Y
Apague Abandone El Area
Inmediatamente

COMMENT:

Example of foreign
language signage warning
of danger and identifying
the meaning of Danger
signals. (See above
for English version).

RECOMMENDATION:

Foreign language signs
should be mounted
immediately next to the
same warning in English
using the same style and
format to increase recogniz-
ability and increase effec-
tiveness.

WL-16



SIGN:

Warning Changing Water Levels Be Constantly Alert for Water Level Increases Water Upstream May Be Released at Any Time

COMMENT:

Good combination of warning, identification of hazard and level of immediacy; "constantly alert."

RECOMMENDATION:

None.

WL-17



SIGN:

Aviso Cambios De Nivel De Agua Este Siempre Alerta Para Crecida Del Nivel El Agua Arriba Se Descarga Sin Aviso

COMMENT:

"Warning Changing Water Levels Be Constantly Alert for Water Level Increases Water Upstream May Be Released at Any Time" Good combination of warning, identification of hazard and level of immediacy "constantly alert."

RECOMMENDATION:

Foreign language signs should be mounted immediately next to the same warning in English using the same style and format to increase recognizability and increase effectiveness.

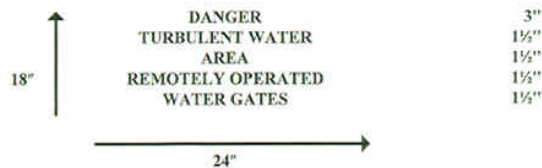
WL-18

Location: Feature No. is located on outside of the chain link fence on the left abutment approximately 300 feet downstream from the tailrace.

Feature Description: Feature No. is a warning sign, twenty-four (24) inches wide by eighteen (18) inches high and made of aluminum. The sign is mounted approximately five (5) feet off the ground on the outside of the chain link fence.



Notes:



WL-19

SIGN:

Danger Turbulent
Water Area Remotely
Operated Water Gates

COMMENT:

Clear sign using trigger word. Example of safety plan sign design/placement sheet. Sheets list the feature #, # of signs, year installed, location, and design details. Notes indicate sign and font sizing.

RECOMMENDATION:

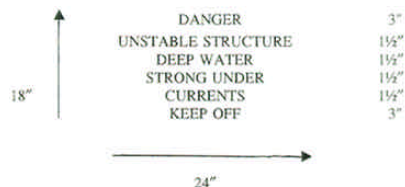
None.

Location: Feature No. is located on the left abutment upstream from the intake area adjacent to a log boom.

Feature Description: Feature No. is a warning sign, twenty-four (24) inches wide by eighteen inches (18) inches high and made of aluminum. The sign is mounted on a four (4) foot high galvanized steel pole. The signage is composed of red and black lettering over a white background.



Notes:



WL-20

SIGN:

Danger Unstable
Structure Deep Water
Strong Under Currents
Keep Off

COMMENT:

Specialized signage for shoreline areas. Example of safety plan sign design/placement sheet. Sheets list the feature #, # of signs, year installed, location, and design details. Notes indicate sign and font sizing.

RECOMMENDATION:

None.



SIGN:

Danger Water Level
Can Rise Rapidly with
or Without Warning

COMMENT:

Specialized "story
board" type symbols
make dangers more
obvious for all viewers
if the meaning is clear.
Special graphics
should be tested for
viewer understanding
prior to sign creation.

RECOMMENDATION:

None.

WL-21



SIGN:

Sirens and Lights
Mean Exit Area Now
Water Will Rise Rapidly

COMMENT:

Specialized "story
board" type symbols
make dangers more
obvious for all viewers
if the meaning is clear.
Special graphics
should be tested for
viewer understanding
prior to sign creation.

RECOMMENDATION:

None.

WL-22



WL-23

SIGN:

Danger This River Channel Floods Suddenly River Channel Below the High Water Mark Closed to Public Access For Your Safety Stay Out of This Area Below the High Water Mark

COMMENT:

Combination of warning and identification of danger areas can increase effectiveness. Placement at access areas increases effectiveness.

RECOMMENDATION:

None.



WL-24

SIGN:

Warning Tall Falls Reservoir Water Level Rises and Falls 4 Feet Daily

COMMENT:

Good use of symbols and identification of range of hazard. Allows user to act appropriately.

RECOMMENDATION:

None.



SIGN:

Warning Dam
Upstream River Level
Rises and Falls Daily

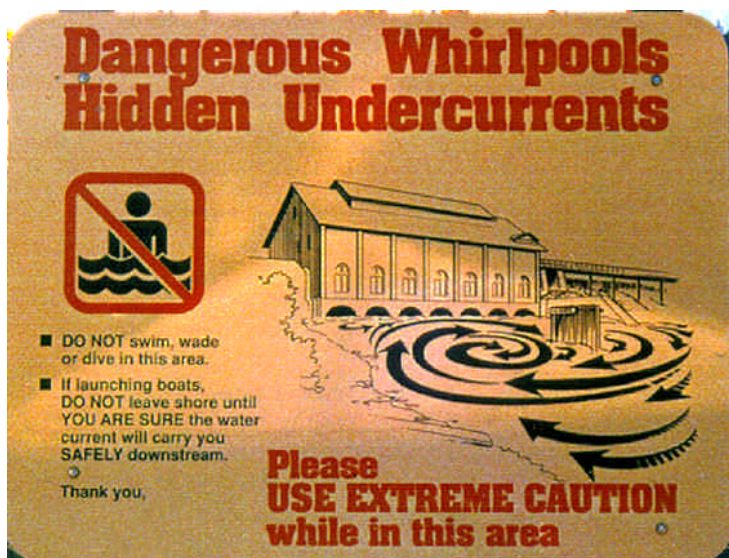
COMMENT:

Good use of symbols
and identification of
hazard. Allows user to
act appropriately even
though dam is out of
view.

RECOMMENDATION:

None.

WL-25



SIGN:

Dangerous Whirlpools
Hidden Undercurrents
Please Use Extreme
Caution While In this
Area

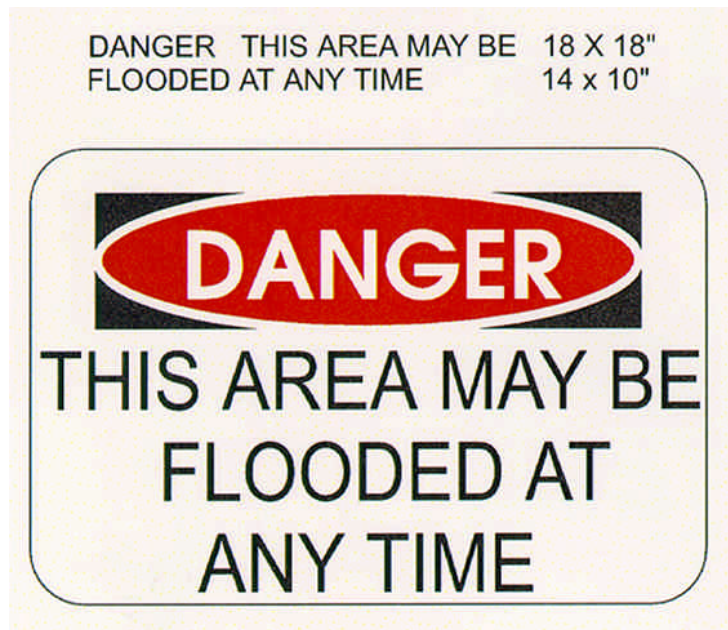
COMMENT:

Specialized graphic
shows viewer potential
hazard while text lists
specific safety
measures to take.

RECOMMENDATION:

None.

WL-26



SIGN:

Danger This Area May
Be Flooded At Any
Time

COMMENT:

Good use of short
direct safety message
to convey possible
danger. Good use of
trigger words.

RECOMMENDATION:

None.

WL-27



SIGN:

Danger Fast-Rising
Waters

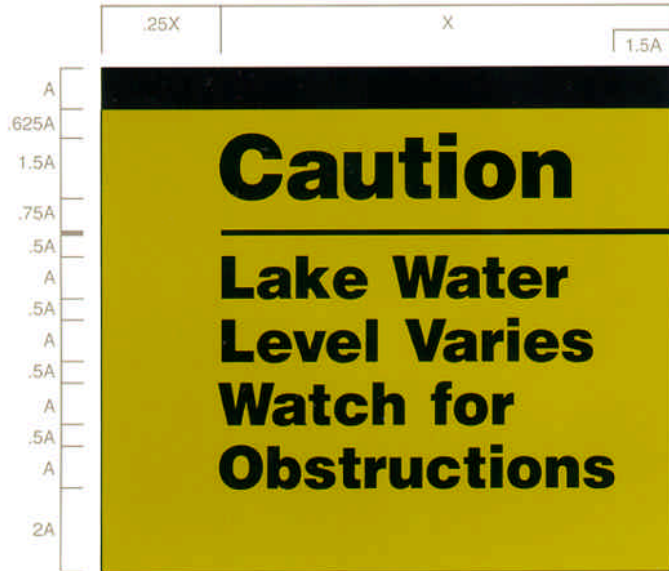
COMMENT:

Good use of standard
black and red header
and trigger word to
indicate level of risk.
Sign text is easy to
read and identifies the
potential hazard.

RECOMMENDATION:

None.

WL-28



SIGN:

Caution Lake Water Level Varies Watch for Obstructions

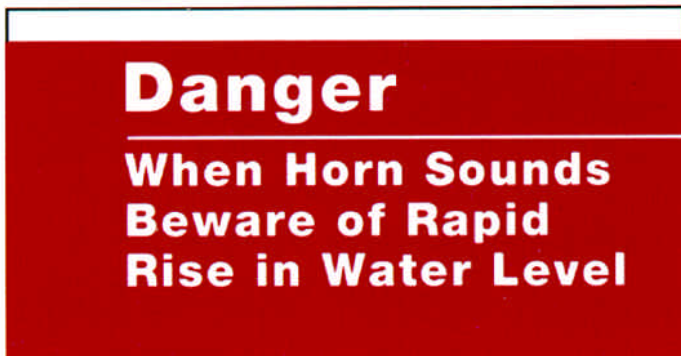
COMMENT:

Placement at access points and known problem areas can increase effectiveness particularly in areas that have many non-local visitors.

RECOMMENDATION:

None.

WL-29



SIGN:

Danger When Horn Sounds Beware of Rapid Rise in Water Level

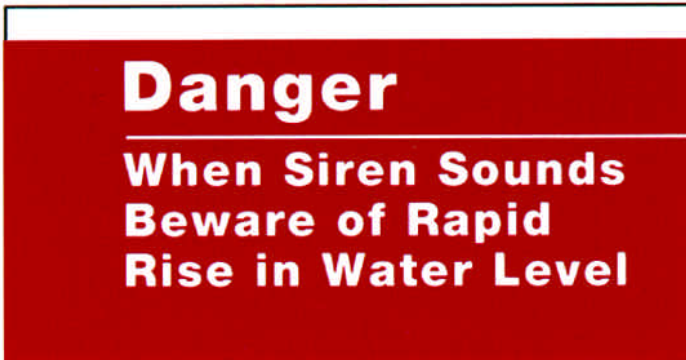
COMMENT:

Identifies level of risk, potential indicator of impending change in conditions, and directs user to heighten awareness. Information allows viewer to act on the indicator even after they are out of sight of the sign. Placement at access points increases effectiveness.

RECOMMENDATION:

None.

WL-30



WL-31

SIGN:

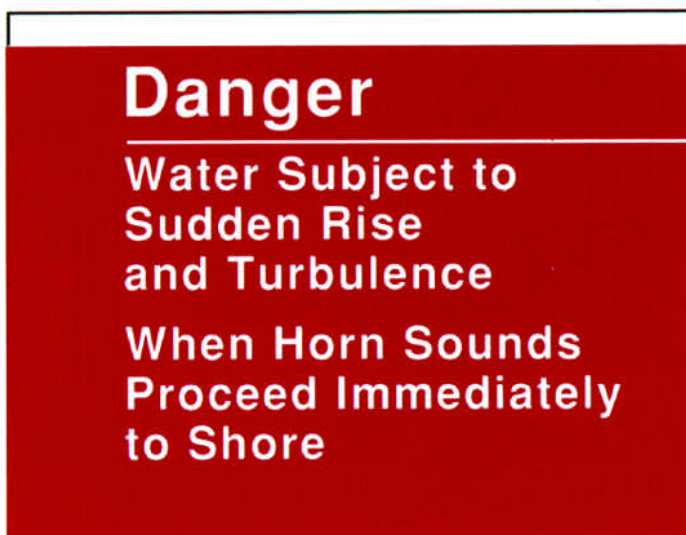
Danger When Siren
Sounds Beware of Rapid
Rise in Water Level

COMMENT:

Identifies level of risk, potential indicator of impending change in conditions, and directs user to heighten awareness. Information allows viewer to act on the indicator even after they are out of sight of the sign. Placement at access points increases effectiveness.

RECOMMENDATION:

None.



WL-32

SIGN:

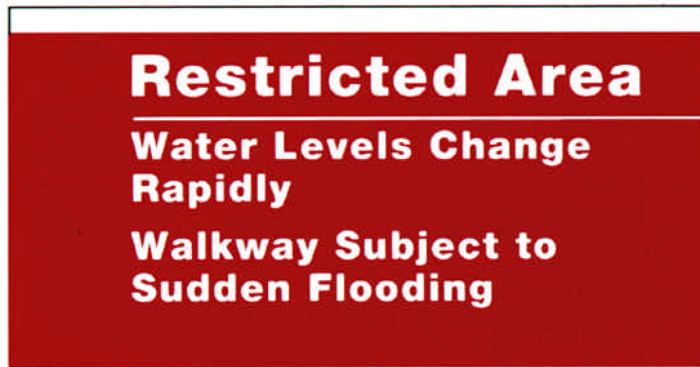
Danger Water Subject to
Sudden Rise and Turbulence
When Horn Sound Proceed
Immediately to Shore

COMMENT:

Identifies level of risk, potential indicator of impending change in conditions, and directs user on how to avoid the hazard. Information allows viewer to act on the indicator even after they are out of sight of the sign. Placement at access points increases effectiveness.

RECOMMENDATION:

None.



SIGN:

Restricted Area Water Levels Change Rapidly Walkway Subject to Sudden Flooding

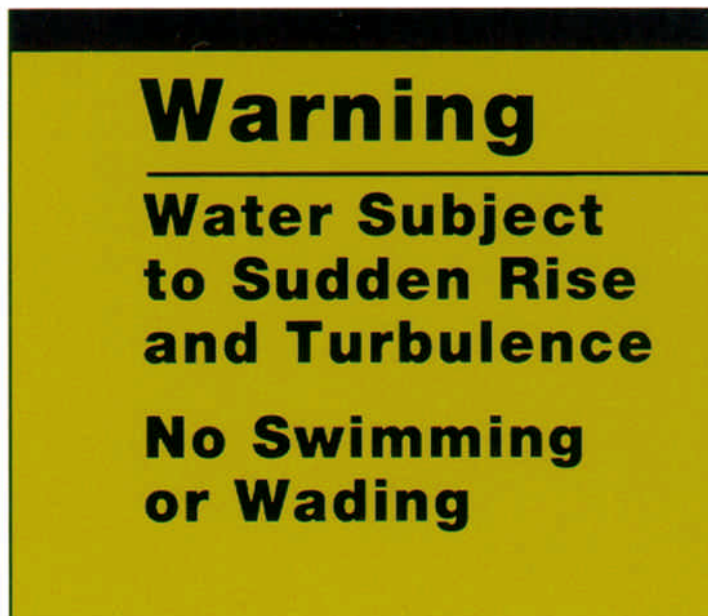
COMMENT:

Identifies non-obvious hazard to both visitors and personnel. Person may assume walkway as safe even under flooding conditions without the warning.

RECOMMENDATION:

None.

WL-33



SIGN:

Warning Water Subject to Sudden Rise and Turbulence No Swimming or Wading

COMMENT:

Identifies level of risk, identifies the source of the risk, and informs the viewer of prohibited activities. Added information increases effectiveness.

RECOMMENDATION:

None.

WL-34